Math 4 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3-3 Learn Check** Date\_\_\_\_\_\_\_\_

*Learning goal:*

*I can identify important characteristics (asymptotes, holes, intercepts, and end behavior) of*

*rational functions.*

**In numbers 1-3, find the below information**

1.  2. 

*Domain:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* *Domain:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*x-intercept(s):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* *x-intercept(s):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*y-intercept: \_\_\_\_\_\_\_\_\_ y-intercept: \_\_\_\_\_\_\_\_\_*

*horizontal asymptote(s):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* *horizontal asymptote(s):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*vertical asymptote(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ vertical asymptote(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*oblique asymptote:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ oblique asymptote:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*hole: \_\_\_\_\_\_\_\_\_\_\_\_\_ hole: \_\_\_\_\_\_\_\_\_\_\_\_\_*

3. 

*Domain:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ x-intercept(s):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* *y-intercept: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*horizontal asymptote(s):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* *vertical asymptote(s): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*oblique asymptote:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ hole: \_\_\_\_\_\_\_\_\_\_\_\_\_*